

combination of a repeater and routing tables, said blind nodes using said routing tables to selectively communicate with base sites required to establish the selected routes;

c) said blind nodes transmitting in the band used for transmission by the mobiles;

5 d) said blind nodes receiving in the band used for receiving by the mobiles; and

e) each said selected route comprising a path that alternates between blind nodes and bases;

whereby the entire system performs in a limited number
10 of bands of frequencies.

B1 1. 19. In a multi-node, multi-remote radio telephone system including cellular radio systems, a method of call connection and call routing between nodes comprising,

15 a) using destination number designations and routing tables to select different routes for different calls;

SCB C1 b) utilizing directional or beam antennas for communications between nodes;

20 c) providing a first set of beams from a first node and providing a second set of beams from a second node, a beam from the first node and a beam from the second node comprising a pair;

d) measuring the signal strengths created by pairs of beams; and

e) selecting a beam pair with the highest signal strength
for communications by eliminating beam pairs that have the weaker
signals,

whereby selected routes include matched antenna beam pairs.

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